4 Alignments and Adjustments

4-1 General Alignment Instuction

1. Usually, a color TV-VCR needs only slight touch-up adjustment upon installation.
   Check the basic characteristics such as height, horizontal and vertical sync.
2. Use the specified test equipment or its equivalent.
3. Correct impedance matching is essential.
4. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV.
   When inserting signal markers, do not allow the marker generator to distort test result.
5. Connect the TV only to an DC power source with voltage and frequency as specified on
   the backcover nameplate.
6. Do not attempt to connect or disconnect any wire while the TV is turned on.
   Make sure that the power cord is disconnected before replacing any parts.
7. To protect aganist shock hazard, use an isolation transform.

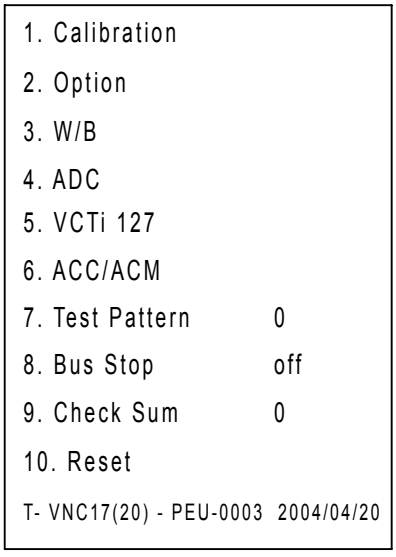
4-2 Factory Mode Adjustments

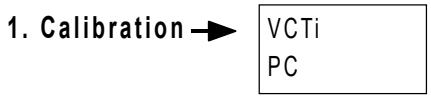
4-2-1 Entering Factory Mode

1. To enter “Service Mode” Press the remote -control keys in this sequence :
   - If you do not have Factory remote - control

   - If you have Factory remote - control

4-2-2 Factory Mode Tree





(1) RF, VIDEO, S-VIDEO : Factory Mode → Calibration → VCTi → Enter

(2) PC : adjust in VGA MODE.
Based on Master device (VIDEO SIGNAL GENERATOR MSPG-925F)
execute Auto Adjustment in Cross Hatch (also called Combination) (Model : 10, Pattern : 25)
After adjusting 16 Gray Pattern (Model : 10, Pattern : 17)
Factory Mode → Calibration → PC → Enter

(3) check 4.ADC of Factory Mode. Adjustment can be done as below.
Value variation can be ± 10~20.

2. Option →

1. Video Mute	O
2. Auto Power	On
3. Panel	XGA
4. Inch	15
5. Antenna Osd	off
6. TTXList/Flof	Flof
7. Auto FM	On
8. Acc/ACM	1
9. Gamma LUT	O
10. ESM	On
11. System	CW

3. W/B(1) →

R level	128
G level	128
B level	128
R gain	127
G gain	127
B gain	127
g Sub Color	0
g Sub Tint	50
Recall	

3. W/B(2) →

Adjustment item		RF [Initial Data]	RF [Adjust Data]	Remark
Red level	ADJ[0~255]	128	128	LW17M24C Blue level 118FIX Red Gain 162FIX
Green level	ADJ[0~255]	128	128	
Blue level	FIX[0~255]	128	128	
Red Gain	FIX[0~255]	128	135	LW20M21C Blue level 119FIX Red Gain 136FIX
Green Gain	ADJ[0~255]	128	135	
Blue Gain	ADJ[0~255]	128	135	
gSUB Color	FIX[0~255]	0	0	
gSUB Tint	FIX[0~255]	50	50	
Factory Recall	*A/S : Micom Initial Data Write			

4. ADC →

VCTi			PC		
Roffset	FIX[0~127]	46	Roffset	FIX[0~127]	50
Goffset	FIX[0~127]	66	Goffset	FIX[0~127]	54
Boffset	FIX[0~127]	68	Boffset	FIX[0~127]	44
Rgain0	FIX[0~255]	251	Rgain0	FIX[0~255]	115
Rgain1	FIX[0 ~ 1]	0	Rgain1	FIX[0 ~ 1]	1
Ggain0	FIX[0~255]	255	Ggain0	FIX[0~255]	120
Ggain1	FIX[0 ~ 1]	0	Ggain1	FIX[0 ~ 1]	1
Bgain0	FIX[0~255]	253	Bgain0	FIX[0~255]	114
Bgain1	FIX[0 ~ 1]	0	Bgain1	FIX[0 ~ 1]	1

5. VCT →

R Drive	255	RF AGC	0
G Drive	255	Vpeaking	6
B Drive	255	CTI Gain	3
Sub Contrast	44	CTI Coring	5
Sub Bright	0	LMIXOFS	6
Sub Sharp	15	PKCF	3
Sub Color	7	AGCADJ1	32
Sub Tint	50	LTI Gain	15
Sub Coring	5		

6. ACC/ ACM →

Y Max D	7	Up Start	40
Y Scl Thr	64	Low Sn Thr	60
Y Scl A	5	Up Sn Thr	0
Y Scl B	0	Y Min	10
A Ctrl	0	Y Max	255
A Snslp	8	Ym Div Slp	128
T Dixel	12	Fr Age	1
Lower End	80	Fr App	0
Mid Start	30	Esm Ctrl	127
Mid End	100		

7. Test Pattern (Test Pattern of VCTi)

1) VCTi
2) Toshiba
3) Gray Bar
4) Gray
5) Green
6) Color Bar
7) Cross

8. Bus Stop

- Bus stop is used data communication.

9. Chcek Sum

- Display the current check sum size of the MICOM.

10. Reset

- Initializes the data in the MICOM.

11. T-VNC17(20) PEU-0003 2004/04/20

- Display the MICOM program version.

4-2-3 White Balance

LW17M24C

High	Low
285, 295	285, 295
x, y	x, y

LW20M21C

High	Low
285, 295	280, 295
x, y	x, y